FFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFFFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	ŶŶŶ	âââ
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFFFFFFF FFF	1111	111		XX
FFFFFFFFFFF	1111	111		XX
FFF	111	111	XXX	XX
FFF	111	111	âââ	XXX
FFF	iii	111	âââ	ŶŶŶ
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	1111111111	1111111111	XXX	XXX
FFF	1111111111	1111111111	XXX	XXX
111	1111111111	111111111	XXX	XXX

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MAKE MAP MAP

MAP MARI MARI MARI MARI MARI

22222222 22222222 22222222 22222222 2222		NN NN NN NN NN NN NNN NN NNNN NN NN NN N	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
	\$		

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CLENUP V04-000		I 11 16-Sep-1984 00:02:25 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:30:12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1 (1
58 59 60	0058 1 1 0059 1 1 0060 1	V03-032 CDS0020 Christian D. Saether 13-Aug-1984 Add code to mark primary fcb stale clusterwide.
62 63 64	0061 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-031 CDS0019 Christian D. Saether 7-Aug-1984 Cleanup potential directory index cache block when deleting a file.
58 59 60 61 63 64 66 66 67 68 70	0062 1 0063 1 0064 1 0065 1 0066 1 0067 1 0068 1 0069 1	V03-030 CDS0018 Christian D. Saether 1-Aug-1984 Modify test for directory fcb. Add SET_DIRINDX routine. Add NUKE_PRIM_FCB routine. Modify ZERO_IDX routine.
72 73 73 75 77 77 77 77 77 88 88 88 88 88 88 88 88	0072 1	V03-029 ACG0438 Andrew C. Goldstein, 19-Jul-1984 17:55 Add cluster-wide special cache interlock logic. Condition DELETEACL calls on non-empty ACL. Use central dequeue routine.
77 78 79	0074 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-028 CDS0017 Christian D. Saether 25-May-1984 Call KILL_BUFFERS routine to flush cache in certain situations when not in a cluster.
81 82	0080 1 0081 1 0082 1	V03-027 CDS0016 Christian D. Saether 9-May-1984 Release allocation lock prior to calling send_symbiont.
85 85 86	0085 1 0085 1 0086 1	V03-026 CDS0015 Christian D. Saether 4-May-1984 No not map notrunc into nowrite. Add bugcheck if access lock conversion fails in make_deaccess.
88 89 90	0086 1 0087 1 0088 1 0089 1 0090 1	V03-025 CDS0014 Christian D. Saether 3-May-1984 Call CONV_ACCLOCK to remove possible access lock when deallocating fcb's.
	0091 1 0092 1 0093 1	V03-024 CDS0013 Christian D. Saether 19-Apr-1984 Changes to FCB\$W_ACNT handling.
95 96	0092 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-023 ACG0415 Andrew C. Goldstein, 5-Apr-1984 21:27 Interface change to ACL_DELETEACL
98 99	0097 1 1 0098 1 0099 1	V03-022 ACG0408 Andrew C. Goldstein, 23-Mar-1984 11:20 Make rest of global storage based
101 102 103	0100 1 0101 1 0102 1 0103 1	V03-021 CDS0012 Christian D. Saether 9-Mar-1984 Put in bug trap to catch possible double remque of FCB.
92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109	0105 1 0106 1 0107 1 0108 1	V03-020 CDS0011 Christian D. Saether 23-feb-1984 Use new WRITE_DIRTY routine to replace FLUSH_BUFFERS. Remove references to FLUSH_FID. Replace FLUSH_FID (0) with KILL_CACHE calls.
110 111 112 113	0110 1 0111 1 0112 1	V03-019 CDS0010 Christian D. Saether 27-Dec-1983 Use L_NORM linkage. Use BIND_COMMON macro to reduce external declarations.
114	0114	VO3-018 CDS0009 Christian D. Saether 23-Nov-1983

CF

CLI
:

CLENUP VO4-000 VAX-11 Bliss-32 V4.0-742 Pa DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1 If DIR FCB is the same as PRIMARY FCB, do not return the FCB until the end of cleanup (as PRIMARY\_FCB, not 115 116 117 DIR\_FCB). Move cleanup of DIR\_FCB until after all i/o is done. Remove REMOVE\_FCB routine (kernel call not necessary). V03-017 LMP0164 LMP0164 L. Mark Pilant, 10-Oct Delete the in-core ACL if doing an FCB fixup. 10-Oct-1983 15:22 CDS0008 Christian D. Saether 3-Oct-1
Handle CURR LCKINDX in err cleanup. Don't read
headers without appropriate serial locks. V03-016 CDS0008 3-0ct-1983 V03-015 CDS0007 Christian D. Saether 14-Sep-1983 Take out degall hack now that RMS does it's own root locks again. V03-014 CDS0006 Christian D. Saether 27-Jul-1983 Change interface to SEND\_SYMBIONT. V03-013 LJK0199 Lawrence J. Kenah 27-Apr-1983 Do not credit FILCNT when giving back shared window V03-012 CDS0006 CDS0006 Christian D. Saether Clear DIR\_ENTRY when DIR\_FCB is cleared. 28-Apr-1983 CDS0005 Christian D. Saether Change interface to TRUNCATE routine. V03-011 CDS0005 21-Apr-1983 CDS0004 Christian D. Saether 19-A Bug check on unexpected lock manager errors. Clear ACCLKID field in window. V03-010 CDS0004 19-Apr-1983 ACG0323 Andrew C. Goldstein, 12-Apr-1983 14:09 Add extended file name to back link fixup V03-009 ACG0323 STJ3069 Steven T. Jeffreys, 23-Mar-1983 Use the ERASE\_REQUESTED parameter of RETURN\_BLOCKS. V03-008 STJ3069 23-Mar-1983 CDS0003 Christian D. Saether 7-Mar-1983 Perform a DEQALL if file access lock dequeue fails due to sublocks, then redo the file access dequeue. V03-007 CDS0003 7-Mar-1983 LMP0071 L. Mark Pilant, 19-Jan-1983 20:49 Correct a problem that caused ACL segments to be left laying around when a directory FCB was flushed. V03-006 LMP0071 V03-005 ACG0308 14-Jan-1983 15:02 Andrew C. Goldstein, Fix FCB linkage consistency problems CDS0002 Christian D. Saether 3-Jan-1983 Always flush header cache until it is restored for xqp. V03-004 CDS0002 LMP0059 L. Mark Pilant, 21-Dec-1982 12:23 Always create an FCB when accessing a file header. This eliminates a lot of special case FCB handling. V03-003 LMP0059

104-000		16-Sep-1984 00:02:25 VAX-11 Bliss-32 V4.0-742 Page 4 14-Sep-1984 12:30:12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32:1 (1)
173	0172 1 0173 1	V03-002 CDS0001 Christian D. Saether 10-Dec-1982 MAKE_DEACCESS dequeues access lock.
172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189	0175 1 1 0176 1 1 0177 1 1	V03-001 LMP0036 L. Mark Pilant, 17-Aug-1982 10:45  If the ACL was built using a dummy FCB, dismantle and deallocate the ACL.
179 180	0179 1 1 0180 1	V02-024 ACG0259 Andrew C. Goldstein, 26-Jan-1982 19:12 Add mode arg to REMOVE
182 183	0182 1 1 0183 1	V02-023 ACG0247 Andrew C. Goldstein, 23-Dec-1981 20:26 Make /NOCACHE flush all caches
185 186	0185 1 0186 1	V02-022 ACG0245 Andrew C. Goldstein, 23-Dec-1981 20:26 Send spool file to print during cleanup
188 189	0188 1 0189 1	V02-021 ACG0244 Andrew C. Goldstein, 23-Dec-1981 20:14 Do buffer flush before deallocating control blocks
191 192 193	0191 1 0192 1	V02-020 LMP0003 L. Mark Pilant, 30-Nov-1981 16:40 Properly cleanup any cathedral windows.
194 195	0193 0194 1 0195 1	V02-019 ACG0208 Andrew C. Goldstein, 11-Nov-1981 17:51 Add segmented directory record support
196 197 198	0196 0197 1 0198 1	V02-018 ACG0168 Andrew C. Goldstein, 7-May-1980 18:22 Fix last block directory cleanup on delete failure
199 200 201 202 203 204	0199 1 ! 0200 1 ! 0201 1 !** 0202 1 !**	V02-017 ACG0167 Andrew C. Goldstein, 16-Apr-1980 19:25 Previous revision history moved to F11B.REV
204 205 206 207	1197 1	'SYS\$LIBRARY:LIB.L32'; 'SRC\$:FCPDEF.B32';
205 206 207 208 209 210 211 213 215 216 217 218 219	1198 1 1199 1 FORWARD 1200 1 1201 1 1202 1 1203 1 1204 1 1205 1 1206 1 1207 1 1208 1	ROUTINE CLEANUP : L_NORM, ! normal cleanup ZERO_WINDOWS : L_NORM, ! invalidate all windows of file ZERO_IDX : L_NORM NOVALUE, ! initialize directory index ERR_CLEANUP : L_NORM, ! clean out the file ID cache MAKE_DEACCESS : L_NORM, ! deaccess the file DEL_EXTFCB : L_NORM, ! deallocate extension FCB's ZERO_CHANNEL : L_NORM, ! zero user channel pointer SET_DIRINDX : L_JSB_TARG, ! test for directory index NUKE_HEAD_FCB : L_NORM NOVALUE; ! deallocate primary fcb

```
L 11
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                                     GLOBAL ROUTINE CLEANUP : L_NORM =
     FUNCTIONAL DESCRIPTION:
                                                This routine performs the cleanup needed after a successfully completed file operation.
                                       CALLING SEQUENCE:
                                        INPUT PARAMETERS:
                                                 NONE
                                        IMPLICIT INPUTS:
                                                CLEANUP_FLAGS: indicate specific actions to do PRIMARY_FCB: FCB of file CURRENT_WINDOW: window of file DIR_FCB: FCB of directory CURRENT_VCB: VCB of volume in process
                                                 10_PACKET: 1/0 packet of request
                                        OUTPUT PARAMETERS:
                                                 NONE
                                        IMPLICIT OUTPUTS:
                                                 NONE
                          238
239
240
241
                                        ROUTINE VALUE:
                                                 NONE
                          24345678901234567
24345678901234567
                                       SIDE EFFECTS:
                                                FCB's and windows deleted when appropriate header written
                                                 FCB updated
                                    !--
                                    BEGIN
                                    LOCAL
                                                                                                    are we a cluster address of quota cache local FCB pointer local VCB pointer local RVT pointer
                                                 CLUSTER.
                                                QUOTA_CACHE
                                                                                  BBLOCK,
                                                 FCB
                                                 VCB
                                                                                  BBLOCK.
                                                 RVT
                                                                                  BBLOCK.
                                                                                                     local UCB pointer
                                                 UCB
                                                                                  BBLOCK,
                                                 HEADER
                                                                                  BBLOCK:
                                                                                                    file header
                                    BIND_COMMON;
                                     DIR_CONTEXT_DEF:
                                    EXTERNAL
                                                CLU$GL_CLUB
                                                                         : ADDRESSING_MODE (ABSOLUTE);
```

```
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [F11X.SRC]CLENUP.B32;1
                                  from the buffer pool. (Note that the quota file is located on RVN 1.)
    QUOTA_CACHE = .VCB[VCB$L_QUOCACHE];
IF .QUOTA_CACHE NEQ 0
THEN
                                                      IF TESTBITSC (QUOTA_CACHE[VCA$V_CACHEFLUSH])
                                                     THEN
                                                          BEGIN
SWITCH_VOLUME (1);
                                                           FLUSH_QUO_CACHE (); ! may create modified buffers
                      336
337
                                                END:
                                                                           ! of this is RVN 1 (or single volume)
                      If the volume is marked for dismount or nocache, flush out all the
                                  caches.
                                          OR .VCB[VCB$V_NOCACHE]
                                           IF .BBLOCK [UCB [UCB$L_DEVCHAR], DEV$V_DMT]
                                                BEGIN
                                                SWITCH VOLUME (.J);
WRITE DIRTY (0);
                                                KILL_CACHE (.UCB); ! we cannot use the block cache after this
                                                END:
                                           END:
                                     END:
                      1352
1353
1355
1356
1356
1363
1364
1366
1366
1368
                                  Write modified buffers. The various cache purges above may have created more dirty buffers than we had at the start of this routine.
                                  No more dirty buffers can be created for the remainder of this request.
                                WRITE_DIRTY (0):
                                  Invalidate any windows on the file, if requested.
                                IF TESTBITSC (CLEANUP_FLAGS[CLF_INVWINDOW])
                                THEN KERNEL_CALL (ZERO_WINDOWS, .. PRIMARY_FCB);
                                  If a directory fcb is left lying about with no use, dispose of it. If the directory file is write accessed, flush the buffer pool of any blocks that might be resident. Also flush the directory index.
                                  Cleanup of these fcbs is deferred until all possible errors in the
    380
381
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5388
3889
3889
3890
3890
                                  cleanup procedure (i/o errors) have already had an opportunity to happen.
                                IF (FCB = .DIR_FCB) NEQ 0
                                THEN
                                     BEGIN
                                      IF .FCB [FCB$W_REFCNT] EQL 0
                                      THEN
                                           BEGIN
                                           IF .FCB NEQ .PRIMARY_FCB
```

CLE

```
B 12
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                                                       IF NOT SET_DIRINDX (.FCB)
    THEN
                                                            BEGIN
DEL_EXTFCB (.FCB);
NUKE_HEAD_FCB (.FCB);
                                                 END
                        1390
1391
1392
1393
1394
1396
1396
1396
1401
1403
1404
1406
1408
1409
                                          ELSE
                                                BEGIN
IF .FCB [FCB$W_WCNT] NEQ 0
                                                 THEN
                                                      BEGIN
SWITCH_VOLUME (.FCB [FCB$w_FID_RVN]);
IF_NOT .CLUSTER
                                                       KILL_BUFFERS (1, .FCB [FCB$L_LOCKBASIS]);
ZERO_IDX ();
                                                       END:
                                                 END:
                                       Guarantee that no further attempts will be made to do any directory
                                       related cleanup. This cleanup code was moved beyond the buffer cleanup to avoid the same situation, but clearing the cleanup flags
                                       makes sure.
                                          CLEANUP_FLAGS [CLF_SUPERSEDE] = 0;
CLEANUP_FLAGS [CLF_REENTER] = 0;
CLEANUP_FLAGS [CLF_REMOVE] = 0;
DIR_FCB = 0;
DIR_ENTRY = 0;
                                          END:
                        1416
1417
1418
1419
                                    IF (FCB = .PRIMARY_FCB) NEQ 0
                                    THEN
                                          BEGIN
                                       Check if the fcb has been modified and if so, and this is a cluster,
                                       cause potential fcbs on other nodes to be marked as stale so they will know to rebuild their fcb chains from the file header(s).
                                          IF .CLEANUP_FLAGS [CLF_MARKFCBSTALE] AND .CLUSTER
                                          THEN
                                                MAKE_FCB_STALE (.FCB);
                                       If an FCB is left about with no use, dispose of it.
                                       Check whether it is a directory fcb first.
                                           IF .FCB[FCB$W_REFCNT] EQL 0
                                          THEN
                                                 IF NOT SET_DIRINDX (.FCB)
```

CL!

CLE	NUP -000								1	C 12 6-Sep-1 4-Sep-1	984 00:02 984 12:30	2:25 VAX-11 Bliss-32 V4.0-742 Pa 0:12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1	ige 9
	449 450 451 452 453 454 455 456 457 458 460 461 462	1438 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450	34444444444444444444444444444444444444	D N P	UKE_I	XTFCB (.FC HEAD_FCB ( RY_FCB = 0	.FCB	);			routine		
											.TITLE	CLENUP \V04-000\	
											.EXTRN .EXTRN .EXTRN .EXTRN	CLUSGL CLUB, MAKE FCB STALE KILL BOFFERS, KILL CACHE WRITE DIRTY, SWITCH VOLUME FLUSH QUO CACHE	
											.PSECT	\$CODE\$,NOWRT,2	
			6A	36	58 58 AA 50 08	00006 0000 36 36 94 30 000000000	CF CA AA 08 36 AA	08 F C 9E 9E 05 13 28 04 04 06 07 07 07	00002 00007 0000C 0000F 00011	15:	ENTRY MOVAB MOVAB TSTL BEQL MOVC3 CLRL CLRL MOVL BLBC TSTL	CLEANUP, Save R2,R3,R4,R5,R6,R7,R8,R9,R11 SWITCH VOLUME, R11 220 (BASE), R8 54 (BASE) 1\$ #54, 54 (BASE), (BASE) 54 (BASE) CLUSTER -108 (BASE), R0 60 (R0), 2\$ @#CLU\$GL_CLUB	1210 1258 1283 1286 1287 1290 1291 1292
				94	59 50 52 AA 54 57	98 20	01 AA A0 52	D0	00016 00019 00018 00029 00028 00028 00036 00036 00036 00044 00048 00048 00059 00059	25:	MOVL BLBC TSTL BEQL MOVL MOVL CMPL BNEQ MOVL BRB CLRL BRB CLRL BRB CMPL BRB	CLUSTER -108(BASE), R0 60(R0), 2\$ @#CLU\$GL_CLUB 2\$ #1, CLUSTER -104(BASE), R0 32(R0), RVT RVT, -108(BASE) 3\$ RVT, UCB #1, R7	1294 1302 1305 1306
					57	08	08 52 01 04 A2 53	9A	00042 00044 00048	35: 45:	BRB MOVZBL CLRL	11(RVT), R7	1307 1303
				94	AA		52	D1	00040	58:	CMPL	RVT108(BASE)	1311
					54	40	52 05 A243	00	00052 00057	65:	MOVL	64(RVT)[J], UCB	1312
					55 01	34	3B A4 53 15	13 00 05 13 00 01 12	00059 0005B 0005F 00062		BEQL MOVL CMPL BNEQ	05 52(UCB), VCB J #1 7\$	1317 1319

						15	12 5-Sep-1	1984 00:02 1984 12:30	:25 VAX-11 Bliss-32 V4.0-742 Pa :12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1	ge 10 (2)
		56	5 C	A5	DO	00064		MOVL	92(VCB), QUOTA_CACHE	: 1327
OA	0B	A6		A5 OF 01	E 5	88000 0006A		BEGL	7\$ #1, 11(QUOTA_CACHE), 7\$	1327 1328 1330 1333
05 13	0000G 3A 53	6B CF A4 A5		01 005 01 53 7E 01 54	FB EO E1	0006F 00071 00074 00079 0007E	78:	PUSHL CALLS CALLS BBS BBC	#1. SWITCH_VOLUME #0, FLUSH QUO_CACHE #5, 58(UCB), 8\$ #1, 83(VCB), 9\$	1334 1342 1343
		6B		01	FB	00083 00085	8\$:	PUSHL	#1, SWITCH_VOLUME	: 1346
	0000G	CF		01	D4 FB	88000 A8000		CLRL	-(SP) #1, WRITE_DIRTY UCB	1347
	0000G	CF 53		01 57	DD FB	0008F		PUSHL CALLS AOBLEQ CLRL CALLS BBCC PUSHL CALLS	#1, KILL CACHE R7, J, 5\$	: 1348
82				7E	F 3	00096 0009A	9\$:	CLRL	-(SP)	1303
08	0000G	CF 6A		01	FB E5	0009C		BBCC	#1, WRITE DIRTY #4, (BASE), 10\$	1363
	0000v	CF 53	08	01	DD FB	000A5		PUSHL	#4, (BASE), 10\$ 8(BASE) #1, ZERO_WINDOWS	: 1364
		53	0000	CA 50 A3 1F 53 37 0000V	13	000AD 000B2	10\$:	MOVL BEQL TSTW	208(BASE), FCB	1373
			18	A3	85	000B4 000B7		BNEQ	24(FCB) 11\$	1376
	08	AA		53	13	000B9 000BD		CMPL BEQL	FCB, 8(BASE)	1379
		50		0000V	DO	000BF 000C2		MOVL	13\$ FCB, RO SET DIRINDX	1381
		2E		50	E8	000C5 000C8		BSBU BLBS PUSHL	SET_DIRINDX RO, 13\$ FCB	1384
	0000v	CF		50 53 01 53 01	FB	000CA 000CF		CALLS	#1. DEL_EXTFCB	1385
	0000v	CF		01 1E	FB	00001		CALLS	#1 NUKE_HEAD_FCB	1376
			10		BS	000D8 000DB 000DD	118:	TSTW	28(FCB)	1392
		7E 6B 0A	28	A3		OORT		BEQL	40(FCB), -(SP)	1395
		0A	16	59	FB E8	000E1		BLBS	28(FCB) 13\$ 40(FCB) -(SP) #1, SWITCH VOLUME CLUSTER, 12\$ 76(FCB)	1396 1398
	00006		40	01	DD	OOOEA		PUSHL	*1	1376
	0000V	CF CF 6A	0000020	A3 19 A3 05 A3 00 8F AAA 00 55 00 55 00 00 00 00 00 00 00 00 00	FB FB CA D4	000E4 000E7 000EA 000EC 000F1 000F6 000FD	12 <b>5</b> : 13 <b>5</b> :	CALLS BLBS PUSHL PUSHL CALLS CALLS CALLS CALLS CLRL CLRL	#2. KILL BUFFERS #0. ZERO IDX #12582944, (BASE) 208(BASE) 8(R8)	1399 1411 1412
		53	80 80	AA AA	D4	00101	148:		8(R8) 8(BASE), FCB	1412 1413 1417
OA				2D 0F	D4 D0 13 E1	00108 0010A		BEQL 8BC BLBC PUSHL CALLS	168	:
		6A 07		59	E9	0010E		BLBC	#14, (BASE), 15\$ CLUSTER, 15\$ FCB	1426 1427 1429
	00006	CF	18	01 A3	E9 DD FB B5 12	00108 0010A 0010E 00111 00113 00118 0011B	158:	1218	#1. MAKE_FCB_STALE 24(FCB) 16\$ FCB, RO SET_DIRINDX RO, 16\$	1435
		50		53	00 30 E8	00110		BNEQ MOVL BSBW	FCB. RO	1437
		11		50	E8	00120 00123		BLBS	RO, 16\$	:

CLENUP VO4-000		E 12 16-Sep-1984 00:02:25 14-Sep-1984 12:30:12	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[F11x.SRC]CLENUP.B32;1 (2)
	0000V CF 0000V CF 50	53 DD 00126 PUSHL FCE 01 FB 00128 CALLS #1 53 DD 0012D PUSHL FCE 01 FB 0012F CALLS #1 AA D4 00134 CLRL 8(E 01 D0 00137 16\$: MOVL #1 04 0013A RET	DEL_EXTFCB : 1443 NUKE_HEAD_FCB : 1445 BASE) : 1449 : 1451
; Routine Size: 315 bytes,	Routine Base: \$CODE	\$ + 0000	

```
CL
```

```
F 12
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                     VAX-11 Bliss-32 V4.0-742 P
DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
CLENUP
VO4-000
                                GLOBAL ROUTINE ZERO_WINDOWS (FCB) : L_NORM =
   FUNCTIONAL DESCRIPTION:
                                           This routine invalidates all windows currently in use on the indicated FCB. This routine must be executed in kernel mode.
                                  CALLING SEQUENCE:
ZERO_WINDOWS (ARG1)
                                   INPUT PARAMETERS:
                                          ARG1: address of FCB
                                  IMPLICIT INPUTS:
                                          CURRENT_WINDOW: address of caller's window, if any
                                  OUTPUT PARAMETERS:
                                          NONE
                                  IMPLICIT OUTPUTS:
                                          NONE
                                  ROUTINE VALUE:
                                          NONE
                                  SIDE EFFECTS:
                                          all windows marked empty, caller's turned
                                BEGIN
                                MAP
                                          FCB
                                                                : REF BBLOCK:
                                LOCAL
                                                                : REF BBLOCK,
                                                                                        window pointer
                                                                                        dummy sturage for REMQUE return pointer to window segment
                                          DUMMY, WINDOW SEGMENT
                                                               : REF BBLOCK, : REF BBLOCK;
                                           NEXT_SEGMENT
                                                                                        pointer to window after next one
                                BASE_REGISTER;
                                EXTERNAL ROUTINE
                                                                                     ! deallocate dynamic memory
                                           DEALLOCATE
                                                                : L_NORM;
                                  Loop through the window list off the FCB, zeroing all the retrieval pointer counts. Then turn the user's window to VBN 1 if it exists.
                                P = .FCB[FCB$L_WLFL];
                                UNTIL .P EQL FCB[FCB$L_WLFL] DO BEGIN P[WCB$W_NMAP] = 0;
```

```
CL
```

```
6 12
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [F11X.SRC]CLENUP.B32;1
                                                      WINDOW_SEGMENT = .P[WCB$L_LINK];
UNTIL .WINDOW_SEGMENT EQL 0
     NEXT SEGMENT = .WINDOW SEGMENT[WCB$L_LINK];
REMQUE (.WINDOW SEGMENT, DUMMY);
DEALLOCATE (.WINDOW SEGMENT);
WINDOW_SEGMENT = .NEXT_SEGMENT;
                                                      END;
P[WCB$L_LINK] = 0;
P[WCB$V COMPLETE] = 0;
P = .P[WCB$L_WLFL];
                                                   ***** Note: When handling of window misses goes into its final form, this routine must also scan the 1/0 queue on the UCB and look for 1/0
                                                   into the blocks just deallocated. All such requests must be yanked out
                                                   of the queue and routed to the ACP for error processing.
                                               RETURN 1:
                                               END:
                                                                                                                              ! end of routine ZERO_WINDOWS
                                                                                                                                                                 DEALLOCATE
                                                                                                                                                  .EXTRN
                                                                                                                                                                ZERO_WINDOWS, Save R2,R3,R4,R5
FCB, R0
16(R0), P
#16, FCB, R0
P, R0
                                                                                                                     00000
00002
00006
                                                                                                                                                                                                                                                           1452
1504
                                                                                                            003C
                                                                                                                                                  .ENTRY
                                                                                                                DO
                                                                                                                                                 MOVL
                                                                                                        A0028222333314B2026C01
                                                                                                                DO
C1
D1
13
                                                                                                                                                 MOVL
                                                                                                                                                                                                                                                            1506
                                                 50
                                                                                                                      0000A 15:
                                                                                                                                                 ADDL3
                                                                                                                                                                 P, RO
4$
22(P)
32(P), WINDOW_SEGMENT
3$
                                                                                                                      0000F
00012
                                                                                                                                                 CMPL
                                                                                                                                                 BEQL
                                                                                                                     00012
00014
00017
0001B 2$:
0001D
00021
00024
00026
0002B
0002B
00030
00033
00037
                                                                                                               8405
005
0F
                                                                                                                                                                                                                                                            1508
1509
                                                                                              16
                                                                                                                                                 MOVL
                                                                             53
                                                                                                                                                                                                                                                            1510
1513
                                                                                                                                                                32 (WINDOW_SEGMENT), NEXT_SEGMENT (WINDOW_SEGMENT), DUMMY WINDOW_SEGMENT #1, DEALLOCATE NEXT_SEGMENT, WINDOW_SEGMENT
                                                                                              20
                                                                             54
55
                                                                                                                                                 MOVL
                                                                                                                                                 REMQUE
PUSHL
CALLS
                                                                                                                                                                                                                                                            1514
                                                                                                                                                                                                                                                           1515
                                                                                                                FB
                                                               0000G
                                                                                                                                                                                                                                                           1516
1510
1518
1519
1520
1506
1528
1530
                                                                                                                                                 MOVL
                                                                                                                                                 BRB
CLRL
BICB2
MOVL
                                                                                                                                                                2$
32(P)
#32, 11(P)
(P), P
                                                                                                                D4
8A
D0
                                                                                               20
                                                                             45
55
                                                                   08
                                                                                                                      0003A
                                                                                                                                                 BRB
                                                                                                                      0003C 48:
                                                                                                                                                 MOVL
                                                                                                                                                                 #1. RO
                                                                             50
                                                                                                                                                 RET
```

\$CODE\$ + 013B

Routine Base:

: Routine Size: 64 bytes,

```
H 12
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page 14 DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1 (4)
                                GLOBAL ROUTINE ZERO_IDX : L_NORM NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                          This routine initializes the index in a directory fCB to an unknown state. It will be rebuilt with the next several lookups. It also bumps the sequence count to indicate a change in contents.
                                  CALLING SEQUENCE: ZERO_IDX ()
                                  INPUT PARAMETERS:
                                          NONE
                                  IMPLICIT INPUTS:
                                          DIR_FCB: directory FCB to init
                                  OUTPUT PARAMETERS:
                                          NONE
                                  IMPLICIT OUTPUTS:
                                          NONE
                                  ROUTINE VALUE:
                                  SIDE EFFECTS:
                                          directory index zeroed
                                BEGIN
                                BIND_COMMON;
                                LOCAL
                                          DIRINDX : REF BBLOCK FIELD (DIRC);
                                DIR_FCB[FCB$W_DIRSEQ] = .DIR_FCB[FCB$W_DIRSEQ] + 1;
                                IF (DIRINDX = .DIR_FCB [FCB$L_DIRINDX]) NEQ 0
                               THEN
                                     DIRINDX [DIRC$W_INUSE] = 0;
                               END:
                                                                                     ! end of routine ZERO_IDX
```

CL

CLENUP VO4-000

1 12 16-Sep-1984 00:02:25 VAX-11 BLiss-32 V4.0-742 Page 15 14-Sep-1984 12:30:12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1 (4)

0080 CO DO 0000F 02 13 00014 60 B4 00016 04 00018 1\$: MOVL BEQL CLRW RET 176(RO), DIRINDX 18 (DIRINDX) 50

1576 1578

; Routine Size: 25 bytes, Routine Base: \$CODE\$ + 017B

```
J 12
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                 VAX-11 Bliss-32 V4.0-742 P. DISKSVMSMASTER: [F11X.SRC]CLENUP.B32;1
                    GLOBAL ROUTINE ERR_CLEANUP : L_NORM =
                                 FUNCTIONAL DESCRIPTION:
                                         This routine performs the cleanup needed after a file
                                         operation that has terminated in an error.
                                 CALLING SEQUENCE:
                                         ERR_CLEANUP ()
                                 INPUT PARAMETERS:
                                         NONE
                                 IMPLICIT INPUTS:
                                         CLEANUP_FLAGS: indicate specific actions to do
                                 OUTPUT PARAMETERS:
                                         NONE
                                 IMPLICIT OUTPUTS:
                                         NONE
                                 ROUTINE VALUE:
                                         NONE
                                 SIDE EFFECTS:
                                         file deaccessed if necessary channel window pointer cleared
                              BEGIN
                              BIND_COMMON:
                              DIR_CONTEXT_DEF:
                              EXTERNAL ROUTINE
                                                                L NORM NOVALUE,
                                         REBLD_PRIM_FCB
BUILD_EXT_FCBS
                                                                                       rebuild primary fcb from header build extension fcb chain
                                                               ALLOCATION UNLOCK
KILL DINDX
PMS END SUB
CLOSE FILE
DEACC OF ILE
DEALLOCATE
                                         SEND SYMBIONT
                                         SWITCH VOLUME
RESTORE DIR
DIR SCAN
MAKE ENTRY
REMOVE
                                         READ_BLOCK
MARK_DIRTY
```

```
CLENUP
VO4-000
                                                                             16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                         VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                                      WRITE BLOCK
DELETE FILE
DELETE FID
                                                                               write a disk block
delete a file
delete a file number
                   NORM.
                                                              NORM.
                                                              NORM.
                                      RETURN_BLOCKS
                                                                               return blocks to storage map
file truncate routine
invalidate a buffer
read file header
                                                              NORM.
                                      TRUNCATE
                                                              NORM.
                                      INVALIDATE
                                                              NORM.
                                      READ HEADER
                                                              NORM.
                                      CHECKSUM
                                                                               checksum file header
                                                             NORM.
                                                            L_NORM:
                                                                               rebuild the windows for a file
                                      REMAP_FILE
   If a subfunction was being executed, turn off metering now.
                                .PMS_SUB_NEST NEQ 0
                            THEN
                                  BEGIN
                                 PMS_SUB_NEST = 1;
PMS_END_SUB ();
                                 END:
                               We repeat the entire procedure twice if a secondary file operation was
                               in progress (indicated by non-zero saved context).
                            WHILE 1 DO
                            BEGIN
                             ! Locals are declared here to prevent their scope from extending around the
                               entire main loop and raising havoc with register assignment.
                            LOCAL
                                                           BBLOCK [FND_LENGTH], ! file name descriptor block
                                      NAME DESC
                                                                               address of file header ident area of file header FCB pointer
                                      HEADER
                                                           REF BBLOCK.
                                      IDENT_AREA
                                                           REF BBLOCK.
                                                           REF BBLOCK.
                                      FCB
                                      WINDOW_SEGMENT
                                                            REF BBLOCK,
                                                                               address of the next window segment
                                      NEXT SEGMENT
RECADOR
                                                                               address of one beyond the next window
                                                            REF BBLOCK.
                                                                               address of directory record
                                                            REF BBLOCK
                                                                               directory cleanup flags
                                      DIR_FLAGS
                                                          : BITVECTOR [32]
                                      UNREC LOCAL.
                                      FID_LOCAL.
                                                                               local copy of NEW_FID
                                                                               random temps
                               Show that cleanup is in progress.
                            CLEANUP_FLAGS[CLF_CLEANUP] = 1;
                               If the ref count on the primary fcb was biased in fid_to_spec, remove
                               the bias.
                            IF TESTBITSC (CLEANUP_FLAGS [CLF_PFCB_REF_UP])
```

VC

```
CLENUP
VO4-000
                                                                                      16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                      VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                     1750
1751
1752
1753
1755
1756
1756
1766
1765
1766
1766
1768
1768
1769
1770
                                   Get back the primary file header of the file in process.
    766
767
                                HEADER = 0:
IF .FILE_HEADER NEQ O
THEN
    768
769
770
771
772
773
774
775
776
                                      BEGIN
                                     FILE HEADER = 0;
IF (CURR_LCKINDX = .PRIM_LCKINDX) NEQ 0
                                           HEADER = READ_HEADER ((IF .CURRENT_FIB NEQ
                                                                      THEN CURRENT FIBEFIBSW FIDE
                                                                     .PRIMARY_FCB);
                                      END:
    780
781
                                  Send the file to the job contratter if it is to be spooled.
                                IF TESTBITSC (CLEANUP_FLAGS[CLF_DOSPOOL])
                                THEN
                                     BEGIN
                     1772
1773
1774
1775
1776
1777
                                  Make sure the allocation lock is released before sending it
                                   to the symbiont to avoid potential deadlock with the symbiont.
    790
791
                                     ALLOCATION_UNLOCK ();
    792
793
                     1778
1779
                                     SEND_SYMBIUNT (.HEADER, .PRIMARY_FCB);
    794
795
                     1780
                     1781
                                  Deaccess the file if requested.
    796
797
                     1784
1785
    798
                                IF TESTBITSC (CLEANUP_FLAGS[CLF_DEACCESS])
    799
                                THEN KERNEL_CALL (MAKE_DEACCESS);
                     1786
1787
    800
    801
                                  Deallocate the window block if called for.
   802
803
                     1788
                     1789
                     1790
1791
1792
1793
1794
1795
    804
                                IF TESTBITSC (CLEANUP_FLAGS[CLF_DELWINDOW])
    805
                                THEN
   806
807
                                         .CURRENT_WINDOW NEQ O
                                     THEN
   808
809
                                           window_segment = .current_window;
                     1796
1797
   810
                                                BEGIN
                     1798
                                                NEXT_SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];
KERNEL_CALL (DEALLOCATE, .WINDOW_SEGMENT);
                     1799
                     1800
                                                WINDOW_SEGMENT = .NEXT_SEGMENT;
                     1801
   816
817
818
819
                     1802
                                           UNTIL .WINDOW_SEGMENT EQL 0:
                                           CURRENT_WINDOW = 0;
                     1804
                                           END:
   820
                                ! Fix the file header back link, if it was modified.
```

```
CL
```

```
CLENUP
VO4-000
                                                                                                      16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                                            VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                         1807
1808
1809
1810
    IF TESTBITSC (CLEANUP_FLAGS[CLF_FIXLINK])
THEN IF .HEADER NEQ 0
                         1811
1812
1813
1814
1815
1816
1817
1818
1819
                                      THEN
                                            BEGIN
                                            MARK_DIRTY (.HEADER);
                                             END:
                                         If a file deletion is called for, do it. This is either a create that
                                         failed later on, or a real delete.
                                      IF TESTBITSC (CLEANUP_FLAGS[CLF_DELFILE])
                                      THEN IF . HEADER NEG O
                                      THEN
                                            BEGIN
                                             IF .PRIMARY_FCB NEQ 0
                                                   IF .PRIMARY_FCB [FCB$L_DIRINDX] NEQ 0
                                                   THEN
                                                         KILL_DINDX (.PRIMARY_FCB);
                                            CLEANUP_FLAGS[CLF_TRUNCATE] = 0;
                                                                                                      ! no truncate necessary after a delete
                                            DELETE_FILE (.CURRENT_FIB, .HEADER);
                         1840
1841
1842
1843
1844
1845
1846
1847
1848
1851
1853
1855
1855
1857
1859
                                      ! If an extend operation failed, truncate the file.
                                      IF TESTBITSC (CLEANUP_FLAGS[CLF_TRUNCATE])
THEN IF .HEADER NEQ 0
                                      THEN
                                            BEGIN
T1 = .CURRENT_FIB[FIB$L_EXSZ]; ! S
T2 = .CURRENT_FIB[FIB$L_EXVBN]; ! S
T3 = .USER_STATUS[1];
CURRENT_FIB[FIB$L_EX$Z] = 0;
TRUNCATE (.CURRENT_FIB, .HEADER, .T2);
HEADER = .FILE_HEADER;
CURRENT_FIB[FIB$L_EX$Z] = .T1;
CURRENT_FIB[FIB$L_EXVBN] = .T2;
USER_STATUS[1] = .T3;
CLEANUP_FLAGS[CLF_INVWINDOW] = 0; ! W
CHECKSUM (.HEADER);
FND:
                                             BEGIN
                                                                                                      ! save the data returned by EXTEND ! so it won't be smashed by TRUNCATE
                                                                                                                   ! follow buffer shuffling
                                                                                                      ! windows were never extended, so no need
                          1860
1861
1862
1863
                                         Various errors leave the file control block screwed up. If needed, rebuild it and its extensions from scratch.
```

```
B 13
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 Particular Particul
           878
879
880
881
882
883
884
885
8867
888
889
890
891
                                                           1864
1865
1866
1867
1868
1870
1871
1873
1875
1876
1876
1887
1888
1881
                                                                                          IF TESTBITSC (CLEANUP_FLAGS[CLF_FIXFCB])
                                                                                          AND .HEADER NEG O
                                                                                         THEN
                                                                                                        BEGIN
                                                                                                        REBLD_PRIM_FCB (.PRIMARY_FCB, .HEADER);
                                                                                                       BUILD_EXT_FCBS (.HEADER);
                                                                                                       END:
                                                                                               Cleanup any cathedral windows which have broken.
           892
           894
895
                                                                                          IF TESTBITSC (CLEANUP_FLAGS[CLF_REMAP]) THEN REMAP_FILE ();
           896
897
                                                           1882
1883
                                                                                                Do directory operation cleanups. We could have entered a new file, removed
                                                                                               an old one, or both, or done a supersede. A supersede is a replacement of the FID for the same name, type, and version.
           898
                                                            1884
                                                           1885
1886
1887
1888
           899
900
                                                                                       DIR_FLAGS = .CLEANUP_FLAGS;
CLEANUP_FLAGS[CLF_SUPERSEDE] = 0;
CLEANUP_FLAGS[CLF_REENTER] = 0;
CLEANUP_FLAGS[CLF_REMOVE] = 0;
           902
903
904
                                                           1889
1890
                                                           1891
1893
1893
1894
1895
1896
1896
1896
1896
1901
1901
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1909
1910
1911
1913
1916
1917
1918
                                                                                       OR .DIR_FLAGS[CLF_SUPERSEDE]
OR .DIR_FLAGS[CLF_REENTER]
OR .DIR_FLAGS[CLF_REMOVE]
           909
                                                                                        THEN
                                                                                                      SWITCH_VOLUME (.CURRENT_FIB[FIB$w_DID_RVN]);
                                                                                               Buffer pool thrashing may have kicked out the directory block we need.
                                                                                               re-read it and recompute the buffer pointers.
                                                                                                      IF .DIR_ENTRY NEQ O THEN RESTORE_DIR (DIR_CONTEXT);
          920
921
923
923
924
925
926
927
928
930
931
932
933
                                                                                              If a directory entry needs to be removed, do so. Pointers are all set up for the REMOVE routine.
                                                                                                       IF .DIR FLAGS[CLF_REMOVE]
THEN REMOVE (0);
                                                                                               If a directory entry needs to be re-entered, do so. If the entry was
                                                                                              removed through an auto-purge, we need to rescan to the point of removal because a directory shuffle may have invalidated the pointers. Construct a name descriptor from the saved name and version and call the enter routine.
                                                           1920
                                                                                                        IF .DIR_FLAGS[CLF_REENTER]
```

```
C 13
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
CLENUP
VO4-000
                                                   THEN
                             BEGIN
CHSFILL (O, FND_LENGTH, NAME_DESC);
NAME_DESC[FND_COUNT] = .PREV_NAME[O];
NAME_DESC[FND_STRING] = PREV_NAME[1];
NAME_DESC[FND_VERSION] = .PREV_VERSION;
IF .DIR_FLAGS[CLF_SUPERSEDE]
                                                                BEGIN
LAST_ENTRY[0] = 0;
DIR_SCAN (NAME_DESC, 0, 0, 0, 0, -1);
CH$MOVE (FID$C_LENGTH, SUPER_FID, CURRENT_FIB[FIB$w_FID]);
                                                          MAKE ENTRY (NAME DESC, CURRENT_FIB);
CLEARUP FLAGS[CLF_REMOVE] = 0;
WRITE_BLOCK (.DIR_BUFFER);
                                               A supersede cleanup consists simply of replacing the superseded file ID in the directory record. Note that the supersede bit could also be set
                                                by a create/auto-purge, which also sets the remove and enter bits, and
                                                is handled above.
                                                   IF .DIR_FLAGS[CLF_SUPERSEDE]
AND NOT .DIR_FLAGS[CLF_REENTER]
AND NOT .DIR_FLAGS[CLF_REMOVE]
                                                   THEN
                                                          BEGIN
                                                          DIR VERSION[DIR$W_VERSION] = .PREV_VERSION;
CH$MOVE (FIB$S_FID, SUPER_FID, DIR_VERSION[DIR$W_FID]);
MARK_DIRTY (.DIR_BUFFER);
                                                                                                                    ! end of directory cleanup processing
                                                   END:
                                               Copy the saved context, if any back into the primary context and repeat
                                               the cleanup.
                                            IF .CONTEXT SAVE EQL O THEN EXITLOOP;
CH$MOVE (CONTEXT_SIZE, CONTEXT_SAVE, CONTEXT_START);
CONTEXT_SAVE = 0;
                                            END:
                                                                                                                     ! end of major loop
                                            RETURN 1:
                                            END:
                                                                                                                    ! end of routine ERR_CLEANUP
```

CLE

<sup>.</sup>EXTRN REBLD\_PRIM\_FCB, BUILD\_EXT\_FCBS
.EXTRN ALLOCATION\_UNLOCK
.EXTRN KILL\_DINDX, PMS\_END\_SUB
.EXTRN CLOSE\_FILE, DEACC\_QFILE

					1	13 5-Sep- 4-Sep-	1984 00:02 1984 12:30	:25 VAX-11 Bliss-32 V4.0-742 Pag :12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1	je 23 (5)
							.EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN	SEND SYMBIONT, RESTORE_DIR DIR SCAN, MAKE ENTRY REMOVE, READ BLOCK MARK DIRTY, DRITE BLOCK DELETE FILE, DELETE FID RETURN BLOCKS, TRUNCATE INVALIBATE, READ HEADER CHECKSUM, REMAP_FILE	
				(	OBFC 00000		.ENTRY	ERR_CLEANUP, Save R2,R3,R4,R5,R6,R7,R8,R9,-	1579
		5E	90	10	C2 00002 9F 00005		SUBL 2	R11 #16, SP -128(BASE)	1413
		59 57 5B	80 08 10 00DC 01A8 0908	AA AA CA CA	9F 00005 9F 00008 9E 0000F 9E 00014 D5 00019		PUSHAB PUSHAB MOVAB MOVAB MOVAB TSTL	8(BASE) 16(BASE), R9 220(BASE), R7 424(BASE), R11 2312(BASE)	1612
	0908	CA	0700	OA	13 0001b 00 0001f			1\$ #1 2312/BACEN	1653
	0000G	CF		01 00 02 0F	FB 00024	10.	CALLS BISB2	#0, PMS_END_SUB	1654
07	01	6A 50	00	OF BE	88 00029 E5 0002D D0 00031 B7 00035	15:	BBCC MOVL	1\$ #1, 2312(BASE) #0, PMS_END_SUB #2, 1(BASE) #15, (BASE), 2\$ 90(\$P), R0 24(R0) #24, (BASE), 3\$ 12(BASE)	1686 1692 1694
08		6A		BE A0 18	E5 00038	28:	BBCC	24(RO) #24, (BASE), 3\$ 12(BASE)	1699
	00006	CF	00	AA	DD 0003C FB 0003F		CALLS	#1, CLOSE_FILE	1700
05	0000v	6A CF		01 13 00	E5 00044 FB 00048	38:	BBCC	#19 (RASE) 48	1705 1706
05	0000G	6A CF		19	E5 0004D FB 00051	48:	BBCC	#0, FLUSH FIDCACHE #25, (BASE), 5\$ #0, DEACC_QFILE	1712 1713
	00000		04	80	D5 00056 13 00059	5\$:	TSTL	4 (BASE)	1718
	00000	CF	04	AA	DD 0005B FB 0005E		PUSHL	4 (BASE)	1719
05	0000G	CF 6A		01	DD 0005B FB 0005E E5 00063 FB 00067	68:	BBCC	#17, (BASE), 7\$	1724
	0000v	CF 52	28	00 AA 17	DO 0006C 13 00070	7\$:	CALLS BBCC CALLS MOVL BEQL CLRL PUSHL CALLS CLRL PUSHL PUSHL PUSHL	4(BASE) #1, CHECKSUM #17, (BASE), 7\$ #0, ZERO_CHÂNNEL 40(BASE), UNREC_LOCAL	1725 1730
			28	17 AA AA	13 00070 04 00072		CLRL	40 (BASE)	1733
	00006	CF	50	01	D4 00072 DD 00075 FB 00078		PUSHL	44 (RACE)	1734
	00000			7Ė	D4 0007D DD 0007F		CLRL	-(\$P)	1735
	00000	66	24	AA	DD 00081		PUSHL	36 (BASE)	
	0000G	CF 52	AB	AA	FB 00084 DQ 00089	85:	MOVL	#1. SWITCH_VOLUME -(SP) UNREC_LOCAL 36(BASE) #3. RETURN_BLOCKS -88(BASE), FID_LOCAL	1742
			AB	AA	04 0008F		BEQL	-88 (BASE)	1745
	00006	CF	AC	01	D4 0008F DD 00092 FB 00095		PUSHL	-R4 (RASE)	1746
	00006	CF		52	DD 0009A FB 0009C		PUSHL	FID LOCAL WILL DELETE FID	1747
	<b>30000</b>		04	01 7E 52 03 4A 12 01 52 01 56 43	DO 0006C 13 00070 D4 00072 DD 00075 FB 0007B DD 0007F DD 00081 FB 00084 DO 00089 13 0008D D4 0008F DD 00092 FB 00092 FB 0009C D4 000A1 D5 000A3 13 000A6	9\$:	PUSHL CALLS CLRL TSTL BEQL	#1, SWITCH_VOLUME FID_LOCAL #1, DELETE_FID HEADER 4(BASE) 12\$	1753 1754

							E 13 16-Sep-1 14-Sep-	1984 00:00 1984 12:3	2:25 VAX-11 BLiss-32 V4.0-742 0:12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.	Page 24 .832;1 (5)
		14	AA	04 18	AA D	4 000A 0 000A 3 000B	8 B	CLRL MOVL BEQL PUSHL TSTL BEQL ADDL3	4(BASE) 24(BASE), 20(BASE)	: 1757 : 1758
				00	19 1 BE 0	0 000A 3 000B D 000B	2	BEQL PUSHL	125 a0(SP)	1763
					69 D	000B 000B 000B 1000B	7	BEQL_	(R9) 10\$	1760
	50		69		BE 08 00 00 00 00 00 00 00 00 00 00 00 00	1 000B D 000B 1 000B	9 D	<b>PUZNE</b>	#4, (R9), R0 R0	1761
		00000	CE		7E 0	4 000C B 000C O 000C D 000D D 000D D 000D B 000E B 000E	1 10\$: 3 11\$:	BRB CLRL CALLS	11\$ -(SP)	1740
		0000G	CF 56		50 0	4 000C B 000C O 000C B 000C D 000D D 000D B 000D B 000E B 000E	8	MOVL	#2, READ_HEADER RO, HEADER #2, (BASE), 13\$ #0, ALLOCATION_UNLOCK	1760
	11	00006	6A CF		02 E	5 000C B 000C	B 125:	CALLS	#2, (BASE), 13\$ #0, ALLOCATION_UNLOCK	1769 1777
				00	50 02 00 BE 56 02	D 000D	7	PUSHL	HEADER #2. SEND SYMBIONT	1778
	05	0000000G	00 6A		02 F	B 000D	9 0 13\$:	CALLS	#2, SEND SYMBIONT	1784
		0000v	CF		00	B 000E	4	CALLS	MO. MAKE DEACCESS	1784 1785
	10		6A	00	1A E	5 000E 5 000E	9 14\$: D	TSTL	12(BASE)	1790 1792
			52 53	00	AA D	0 000F	2	MOAF	12(BASE), WINDOW_SEGMENT	1795 1798
			53	20	AA 0	0 000F D 000F	6 15\$:	PUSHL	32(WINDOW_SEGMENT), NEXT_SEGMENT WINDOW SEGMENT	: 1798 : 1799
		0000G	CF 52		01 F	B 000F	C	MOVE	#1, DEÄLLOCATE NEXT SEGMENT, WINDOW SEGMENT	
			,,	OC	FO 1	2 0010	4	BNEQ	15\$ 12(PASE)	1800 1802 1803 1809
	29		6A	OC.	îê ë	5 0010	9 16\$:	BBCC	#30, (BASE), 17\$	1809
					1E E E E E E E E E E E E E E E E E E E	5 000E 000F 000F 000F 000F 0010 0010 5 0010 5 0010 8 0011	9 148: D0 2 6 158: A CC 14 6 168: DF 1	MOVL BBCC CALLS PUSHL CALLS BBCC CALLS BBCC TSTL BEQL MOVL PUSHL CALLS MOVL PUSHL CALLS MOVL BNEQ CLRL BBCC TSTL BCC TST	#2. SEND SYMBIONT #16. (BASE). 14\$ #0. MAKE DEACCESS #26. (BASE). 16\$ 12(BASE) 16\$ 12(BASE). WINDOW SEGMENT 32(WINDOW SEGMENT). NEXT SEGMENT WINDOW SEGMENT #1. DEALLOCATE NEXT SEGMENT. WINDOW SEGMENT 15\$ 12(BASE) #30. (BASE). 17\$ HEADER 17\$ #6. 48(BASE). 66(HEADER)	
42	A6	30	50		66 9	8 0011 A 0011	7	MOVES MOVZBL	(HEADED) DO	1813 1814
	68		58 6B		6640	E 0011 8 0011	A E	MOVAL	(HEADER)[RO]. IDENT AREA	2
36	68 A8	14	AB		3¢ 2	E 0011 8 0011 8 0012 D 0012	2	MOVC3	#60, 20(R11), 54(IDENT_AREA)	1816 1819 1820
		0000G	CF		01 F	8 0012 DB 0012 DB 0013 DB 0013 DB 0013 DB 0013 O013 O014 O014	A	MOVC3 MOVC3 PUSHL CALLS PUSHL	(HEADER)[RO], IDENT_AREA #20, (R11), (IDENT_AREA) #60, 20(R11), 54(IDENT_AREA) HEADER #1, CHECKSUM HEADER #1, MARK_DIRTY	1821
	0.4	0000G	CF		01 F	B 0013	1	CALLS	#1, MARK DIRTY	•
	24		6A		56	5 0013	6 17\$:	BBCC	HEADER	1828 1829
			50	00	56 0 20 1 BE 0 00 1	B 0012 D 0013 B 0013 5 0013 5 0013 0 0014 0 0014	E	BEQL MOVL	198 a0(SP), RO	1832
				0080	00 1	3 0014	2	MOVL BEQL TSTL	18\$ 176(RO)	1834
				0300		3 0014	8	BEOL	18\$ RO	1836
		00006	CF		01	D 0014 B 0014 A 0015 D 0015 D 0015 B 0015 5 0016 3 0016	Č	CALLS BICB2	W1, KILL_DINDX	•
		02	AA		56	D 0015	1 18\$:	PUSHL	#4, 2(BASE) HEADER (R9)	1838 1839
		00006	CF		02	D 0015	9	PUSHL	#2. DELETE FILE	
	4F		6A		04 8 56 69 0 02 1 12 8 56 0	5 0015	E 198:	BBCC	#18, (BASE), 20\$	1845 1846
					48	3 0016	4	BEQL	HEADER 20\$	

					F 1: 16-5: 14-5:	ep-1984 00:02 ep-1984 12:30		Page 25 IUP.832;1 (5)
		50	18	69	DO 00166 DO 00169	MOVL	(R9) R0 24(R0) T1 (R9) R0 28(R0) T2	: 1849
		50	10	69	DO 0016D DO 00170	MOVL MOVL ADDL3	(R9) R0	1850
50	04	50405 502 550 550	16	6A99040902693A9492430	C1 00174	ADDL 3	24(RÔ), T1 (R9), RO 28(RÔ), T2 #4, 4(\$P), RO (RÔ), T3 (R9), RÔ	1851
		50		69	00 00179 00 0017C	MOVL	(R9) RO 24(R0)	1852
			18	25 20	D4 0017F DD 00182	MOVL MOVL CLRL PUSHL	12	1853
				56 69	IZIZ UJIJI CAM	PUSHL	HEADER (R9)	
	0000G	CF 56	04	03	DD 00186 FB 00188 D0 0018D D0 00191	CALLS	#3, TRUNCATE 4(BASE), HEADER	1854
	18	560 500 500 AE0 66A		69	DO 00191 DO 00194	MOVL MOVL MOVL	(R9), R0 T1, 24(R0)	1855
		50		69	00 00198 00 00198 C1 0019F	MOVL	(R9) R0	1856
50	10	AE		04	C1 0019F	MOVL ADDL3	(R9), R0 T2, 28(R0) #4, 4(SP), R0	1857
		6A		10	DO 001A4 8A 001A7	BICB2	T3, (R0) #16, (BASE)	1858 1859
	00006	CF		56 01	DD 001AA FB 001AC	PUSHL	HEADER #1, CHECKSUM	
15		6A		01 01 56 11	ES 001B1 201 05 001B5	S: BBCC TSTL	#1, (BASE), 21\$ HEADER	: 1866 : 1867
				11 56	13 001B7	BEQL	21\$	1871
	00006	CF	04	56 BE 02 56	DD 001B9 DD 001BB FB 001BE	PUSHL CALLS PUSHL CALLS S: BBCC CALLS	HEADER  a4(SP)  #2. REALD PRIM FCR	
	00006	CF		56 01	DD 00163	PUSHL	#2, REBLD_PRIM_FCB HEADER #1, BUILD_EXT_FCBS	1873
05		6A		1F	E5 001CA 21	S: BBCC	#31, (BASE), Z2\$	1880
	00006	CF 58		00 6A	FB 001CE 00 00103 22	BICL2	NO, REMAP FILE (BASE), DIR FLAGS	1887
08		58	00000050	8F 05 17	CA 001D6 E0 001DD	BBS	#12582944, (BASE) #5, DIR_FLAGS, 238	1890 1892 1893
08 07 03		6A 58 58		17	E0 00100 E0 001E1 E0 001E5 31 001E9	BBS BBS BBS BRW	#23, DIR_FLAGS, 238 #22, DIR_FLAGS, 238	: 1893 : 1894
				009E	31 001E9 00 001EC 23	BRW S: MOVI	28\$ (R9) R0	1897
	00006	50 7E CF	0E	AO O1	00 001EC 23	MOV 7 UI	14(RO), -(SP)	
	00000		08	A7	FB 001F3 D5 001F8 13 001FB	TSTL	8(R7)	1903
	00000			009E 69 A0 01 A7 07	EO 00100 EO 001E1 EO 001E5 31 001E9 DO 001EC 23: 3C 001EF FB 001F3 D5 001F8 13 001FB DD 001FD FB 001FF	CALLS TSTL BEQL PUSHL CALLS	#0, REMAP FILE (BASE), DIR FLAGS #12582944, TBASE) #5, DIR FLAGS, 23\$ #23, DIR FLAGS, 23\$ #22, DIR FLAGS, 23\$ (R9), R0 14(R0), -(SP) #1, SWITCH_VOLUME 8(R7) 24\$ R7	1904
07	0000G	CF 58		O I	E I UULUT LT	S: BBC CLRL	#1. RESTORE_DIR #22. DIR_FLAGS, 25\$ -(SP)	1910
	00006	CF		7E 01	D4 00208 FB 0020A E1 0020F 25	CALLS	#1 REMOVE	1911
52		58 6E		17	FB 0020A E1 0020F 25 2C 00213	S: BBC MOVC5	#1, REMOVE #23, DIR_FLAGS, 27\$ #0, (SP), #0, #16, NAME_DESE	1920 1923
	oc		08 0156 0157 0152	16 7E 01 17 00 AE CA CA 05 A7	00218	MOVZBL		•
	0C 10 14	AE AE S8	0157	CA	9E 00220	MOVAB	343(BASE), NAME DESC+8	1925
16	14	58	10	05	9A 0021A 9E 00220 B0 00226 E1 0022C 94 00230 CE 00233	BBC CLRB MNEGL	342(BASE), NAME_DESC+4 343(BASE), NAME_DESC+8 338(BASE), NAME_DESC+12 #5, DIR_FLAGS, 26\$ 28(R7) #1, -(SP)	1924 1925 1926 1927 1930
		7E	16	Õi	CE 00233	MNEGL	#1, -(SP)	1931

CLENUP V04-000							1	6 13 6-Sep-1 4-Sep-1	984 00:02 984 12:30	2:25	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[F11X.SRC]CLENUP	Page 26 .B32;1 (5)
04	A0 21 10 19 A0	0000G 01FE 0000G 02 0000G 0C 01FE 0000G	CF 50 CF AA CF 50 CF AA 50	20 00 40 04 01 52 00 04 36	7EEEE776069E2F71576A76A71AB6AF1001	777D9FB08DFBADB1000008DB5384104	00238 00238 00238 00235 0022447 002258 002258 002258 002260 002278 002288 002288 002290 002290	26\$: 27\$: 28\$:	CLRQ CLRQ CLRL PUSHAB CALLS MOVC3 PUSHAB CALLS BISHL CBC BBS MOVL MOVL3 PUSHLS BBS MOVL MOVL3 PUSHLS BBS MOVL MOVL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL BEQL STSTL STSTL BEQL STSTL STSTL BEQL STSTL STS	#2 #64 4(R7) #1, W #23, #22, 338(R7) #6, 75 4(R7) #1, M 54(BA	DESC SIR SCAN RO 10(BASE), 4(RO) DESC MAKE ENTRY 2(BASE) IRITE BLOCK DIR FLAGS, 28\$ DIR FLAGS, 28\$ D	1932 1934 1935 1936 1947 1947 1950 1951 1952 1962 1963 1964 1661 1968 1970

; Routine Size: 670 bytes, Routine Base: \$CODE\$ + 0194

```
CLENUP
VO4-000
                                                                                          16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                           VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER: [F11X.SRC]CLENUP.B32;1
   986
987
988
989
991
993
993
995
996
997
998
999
                      ROUTINE FLUSH_FIDCACHE : L_NORM =
                                    FUNCTIONAL DESCRIPTION:
                                             This routine empties the file ID cache by zeroing the entry count. It must be called in kernel mode.
                                    CALLING SEQUENCE:
FLUSH_FIDCACHE ()
                                     INPUT PARAMETERS:
                                             NONE
   1001
                                     IMPLICIT INPUTS:
   1003
                                             CURRENT_VCB: VCB of volume
   1004
                                    OUTPUT PARAMETERS:
   1005
   1006
                                             NONE
   1007
   1008
                                     IMPLICIT OUTPUTS:
   1009
                                             NONE
   1010
                                    ROUTINE VALUE:
   1011
  1012
   1013
   1014
                                     SIDE EFFECTS:
                                             file ID cache cleared
   1015
  1016
   1017
   1018
   1019
                                  BEGIN
   1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
                                  BIND_COMMON;
                                  LOCAL
                                             FID_CACHE
                                                                                         ! file ID cache
                                                                   : REF BBLOCK;
                                  FID_CACHE = .BBLOCK [.CURRENT_VCB[VCB$L_CACHE], VCA$L_FIDCACHE];
FID_CACHE[VCA$W_FIDCOUNT] = 0;
   1031
                                  END:
                                                                                          ! end of routine FLUSH_FIDCACHE
```

0000 00000 FLUSH\_FIDCACHE:

DO DO B4 DO

B0 A0 01

50 50

50

00002 00006 0000A 0000D . WORD

MOVL

MOVL

CLRW

MOVL

CLI

1971 2012

CLENUP VO4-000 16-Sep-1984 00:02:25 14-Sep-1984 12:30:12

VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1

04 00010

RET

; Routine Size: 17 bytes, Routine Base: \$CODE\$ + 0432

• • •

. .. ......

```
CLENUP
VO4-000
                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[f11x.SRC]CLENUP.B32;1
                                                                                    16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                     207678901234567890123456789012345678901234567890
   1091
                                WINDOW_SEGMENT = .CURRENT_WINDOW;
   1092
                                DO
   1093
                                     BEGIN
                                        .WINDOW_SEGMENT[WCB$L_WLFL] NEQ O THEN REMQUE (.WINDOW_SEGMENT, DUMMY);
   1094
                                     WINDOW_SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];
   1095
   1096
   1097
                                UNTIL . WINDOW_SEGMENT EQL O:
   1098
   1099
                                IF NOT .CURRENT_WINDOW [WCB$V_NOACCLOCK]
   1100
                                THEN
   1101
                                        .CURRENT_WINDOW[WCB$V_NOREAD]
   1102
   1103
                                     THEN FCBCFCBSV_EXCL] = 0:
   1104
   1105
                                     IF .CURRENT_WINDOW[WCB$V_NOTRUNC]
   1106
                                     THEN FCB[FCB$W_TCNT] = .FCB[FCB$W_TCNT] - 1;
   1107
   1108
                                     IF .CURRENT WINDOW[WCB$V NOWRITE]
   1109
                                     THEN FCB[FCB$W_LCNT] = .FCB[FCB$W_LCNT] - 1;
   1110
                                     FCB [FCB$W_ACNT] = .FCB [FCB$W_ACNT] - 1;
   1111
  1112
1113
                                     END:
                                                                          ! of normal (not NOLOCK) deaccess.
  1114
   1115
                                FCB[FCB$W_REFCNT] = .FCB[FCB$W_REFCNT] - 1;
  1116
                                  for a write access, bump down the writer count. If this is the last write, and the file is the index file or the storage map, clear the appropriate flag in the VCB. If there's a cache lock being held
  1117
  1118
  1119
  1120
1121
1123
1124
1126
1127
1128
1129
1130
1131
1133
1133
1138
1139
                                  for this file, release it.
                                   .CURRENT_WINDOW[WCB$V_WRITE]
                                THEN
                                     BEGIN
                                     IF NOT .CURRENT_WINDOW [WCB$V_NOACCLOCK]
                                          FCB[FCB$W_WCNT] = .FCB[FCB$W_WCNT] - 1;
                                     IF .FCB[FCB$W_WCNT] EQL 0
                                          OR (.FCB [FCB$W_REFCNT] EQL O AND .CURRENT_WINDOW [WCB$V_WRITE])
                                     THEN
                                          BEGIN
                                          IF .FCB[FCB$B_FID_NMX] EQL 0
                                          THEN
                                               BEGIN
                                                IF .FCB[FCB$W_FID_NUM] EQL 1
                                               THEN CURRENT VCB[VCBSV WRITE IF] = 0;
IF .FCB[FCBSD_FID_NUM] EQL 2
   1140
  1141
1142
1143
1144
1145
                                                THEN CURRENT_VCB[VCB$V_WRITE_SM] = 0;
                                              .FCB[FCB$L_CACHELKID] NEQ 0
                                          THEN
  1146
                                               DEQ_LOCK (.FCB[FCB$L_CACHELKID]);
```

CD

```
CLENUP
VO4-000
                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                                                    FCB[FCB$L_CACHELKID] = 0:
  END:
                                              END:
                                        END:
                                     Recalculate the lock mode of the access lock for this fcb.
                                   IF .FCB [FCB$W_ACNT] EQL O
                                        LCKMODE = LCK$K_NLMODE
                                   ELSE
                                        BEGIN
                                        LOCAL ACCTL;
                                        ACCTL = 0;
IF .FCB [FCB$W_WCNT] NEQ 0
THEN ACCTL = .ACCTL + FIB$M_WRITE;
IF .FCB [FCB$W_LCNT] NEQ 0
THEN ACCTL = .ACCTL + FIB$M_NOWRITE;
                                        LCKMODE = LOCK_MODE (.ACCTL);
                                        END:
                                     If the new access lock mode lock for this fcb is different (lower) than the current lock, convert it. The conversion routine will also dequeue the lock if this is the last reference.
                                  IF .LCKMODE<0.8> NEQ .FCB [FCB$B_ACCLKMODE]
OR .FCB [FCB$W_REFCNT] EQL 0
                                        IF NOT CONV_ACCLOCK (.LCKMODE, .FCB)
                                              BUG_CHECK (XQPERR, 'deaccess conversion failed');
                                     Note: We now have a file control block with a possible zero access count
                                      in the FCB list. This gets dealt with by the general cleanup.
                                  PMS$GL_OPEN = .PMS$GL_OPEN - 1; ! bump down count of open files 
CURRENT_VCB[VCB$W_TRANS] = .CURRENT_VCB[VCB$W_TRANS] - 1;
                                   RETURN 1:
  1194
                                  END:
                                                                                             ! end of routine MAKE_DEACCESS
```

.EXTRN PMS\$GL\_OPEN, DEQ\_LOCK
.EXTRN CONV\_ACCLOCK, LOCK\_MODE
.EXTRN BUG\$\_XQPERR

000C 00000 MAKE\_DEACCESS:

Save R2,R3

: 2017

COI

					16- 14-	13 Sep-1 Sep-1	984 00:02 984 12:30	:25 VAX-11 Bliss-32 V4.0-742 :12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;	Page 32
		51 52 50	0C 08	AA 61 60	9E 00002 D0 00006 D0 0000A D5 0000D 1 13 0000F	<b>\$</b> :	MOVAB MOVL MOVL TSTL BEQL REMQUE	12(BASE), R1 8(BASE), FCB (R1), WINDOW_SEGMENT (WINDOW_SEGMENT)	2050 2069 2075 2078
		53 50	20	60 A0	OF 00011	\$:	REMQUE MOVL BNEQ	(WINDOW_SEGMENT), DUMMY 32(WINDOW_SEGMENT), WINDOW_SEGMENT	2079
21	14	50 A0		61	DO 0001A EO 0001D		MOVL	1\$ (R1), R0 #2, 20(R0), 6\$	2081
21	14 15 22	A0 A2 50		02	E1 00022 8A 00027		BBS BBC BICB2	#2, 21(RO), 3\$ #8, 34(FCB)	2086 2087
03	15	A0	20	61 03	00 0002B 3 E1 0002E B7 00033	\$:	MOVL BBC DECW	(R1), R0 #3, 21(R0), 4\$ 32(FCB)	2089
		50 03	20	61	DO 00036 4 E9 00039	\$:	MOVI	(R1), R0 20(R0), 5\$	2090
			1E 1A 18	AA16030000000000000000000000000000000000	B7 00030 B7 00040 5 B7 00043 6	\$: \$:	BLBC DECW DECW DECW MOVL	30(FCB) 26(FCB) 24(FCB)	2093 2095 2099
4B 03	08 14	50 A0		61 01	DO 00046 E1 00049		RRC	(R1), R0 #1, 11(R0), 11\$	2107
03	14	AO	1 C	A2 A2	E0 0004E B7 00053 B5 00056 7	<b>'\$</b> :	BBS DECW TSTW	(R1), R0 #1, 11(R0), 11\$ #2, 20(R0), 7\$ 28(FCB) 28(FCB)	2111 2113 2115
			18	A2	13 00059 B5 0005B 12 0005E		BEQL TSTW BNEQ	8\$ 24(FCB) 11\$	2116
31	08	50 A0	29	61 01 02 A2 0D A2 39 61 01	DO 00060 E1 00063 95 00068 8	<b>s</b> :	MOVL BBC TSTB	(R1), R0 #1, 11(R0), 11\$ 41(FCB)	2119
		01	24	1C A2 08	12 0006B B1 0006D 12 00071		BNEQ CMPW BNEQ	10\$ 36(FCB), #1 9\$	2122
	08	50 A0 02	98	AA	DO 00073 8A 00077 B1 0007B 9 12 0007F DO 00081 8A 00085 D5 00089 1		MOVL BICB2	-104(BASE), RO #1, 11(RO) 36(FCB), #2 10\$ -104(BASE), RO #2, 11(RO) 84(FCB)	2123
	•••		24	A2 08	B1 0007B 9	\$:	MOVL BICB2 CMPW BNEQ MOVL BICB2	36(FCB), #2 10\$	2124
	08	50 A0	98	20	DO 00081 8A 00085		BICBS	-104(BASE), RO #2, 11(RO)	2125
			54	A2 0B	D5 00089 1 13 0008C	0\$:	BEQL	84(FCB) 11\$	2127
	0000G	CF	54	01	DD 0008E FB 00091		CALLS	11\$ 84(FCB) #1. DEQ_LOCK	2130
			54 1A	01 08 08 02 08 08 08 01 04 05 04	13 0008C DD 0008E FB 00091 D4 00096 B5 00099 12 0009C D4 0009E 11 000AO D4 000A2 1	18:	TSTL BEQL PUSHL CALLS CLRL TSTW BNEQ CLRL BRB CLRL TSTW	#1. DEG_LOCK 84(FCB) 26(FCB) 12\$ LCKMODE	2131 2139
				51 19	D4 0009E 11 000A0		CLRL	LCKMODE 15\$	2141
			10	50 A2	D4 000A2 1 B5 000A4 13 000A7	2\$:	CLRL	ACCTL 28 (FCB) 13\$	2147 2148
		50	0100 1E	19 50 A2 05 C0 A2 02 50	B5 000A4 13 000A7 9E 000A9 B5 000AE 1 13 000B1 D6 000B3 30 000B5 1	38:	BEQL MOVAB TSTW	256(RO), ACCTL 30(FCB)	2149 2150
				00000	06 000B3 30 000B5 1	48:	BEQL INCL BSBW	ACCTL LOCK_MODE	2151 2153

CLENUP V04-000			N 13 16-Sep-1984 00:02:25 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:30:12 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1	(7)
	0000G	51 A2 18 CF 04 000000006 50 98 0C	05 12 000BF BNEQ 16\$ A2 B5 000C1 TSTW 24(FCB) 0E 12 000C4 BNEQ 17\$ 06 BB 000C6 16\$: PUSHR #^M <r1.r2> 02 FB 000CB CALLS #2, CONV_ACCLOCK 50 E8 000CD BLBS R0, 17\$ FEFF 000D0 BUGW COOD2 CHORD <bug\$ xqperr!4=""></bug\$></r1.r2>	2162 2163 2165 2167 2174
		50	9F D7 000D4 178: DECL	176
; Routine Size: 229 bytes.	Routine	Base: \$CODE\$	<b>s</b> + 0443	

```
00
```

```
CLENUP
VO4-000
                                                                                  16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                 VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [F11x.SRC]CLENUP.B32;1
 1196
                    GLOBAL ROUTINE DEL_EXTF(B (START_FCB) : L_NORM =
 1198990123456789901234567899012334567899012333334444444444444449912
                               1++
                                 FUNCTIONAL DESCRIPTION:
                                         This routine removes and deallocates all extension FCB's, if any,
                                         linked to the indicated FCB.
                                 CALLING SEQUENCE:
                                         DEL_EXTFCB (ARG1)
                                 INPUT PARAMETERS:
                                         ARG1: address of primary FCB or 0
                                 IMPLICIT INPUTS:
                                         NONE
                                 OUTPUT PARAMETERS:
                                         NONE
                                 IMPLICIT OUTPUTS:
                                         NONE
                                 ROUTINE VALUE:
                                         NONE
                                 SIDE EFFECTS:
                                         FCB's deallocated
                              BEGIN
                              MAP
                                         START_FCB
                                                             : REF BBLOCK:
                                                                                  ! FCB argument
                              LOCAL
                                                             : REF BBLOCK,
                                                                                    running FCB pointer
                                                             : REF BBLOCK.
                                         NEXT_FCB
                                                                                    next extension FCB
                                                             : REF BBLOCK.
                                                                                     pointer to chase for VCB
                                         DUMMY:
                                                                                    dummy local to receive REMQUE
                               BASE_REGISTER;
                               EXTERNAL ROUTINE
                                         DEALLOCATE
                                                                                  ! deallocate dynamic memory
                                                              : L_NORM;
                                 Checking for null pointers, find the first extension FCB. Follow the extension
                                 list and remove and deallocate the extension fCB's, cleaning out the pointers on the way. For each fCB removed, we must find the VCB (by chasing around the
                                 FCB list) and decrement the transaction count.
                              If .START FCB EQL 0 THEN RETURN 1;
FCB = .START FCB[FCB$L_EXFCB];
START_FCB[FCB$L_EXFCB] = 0;
```

```
CO
```

```
C 14
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                               VAX-11 Biss-32 V4.0-742 PRISKSVMSMASTER: [F11x.SRC]CLENUP.B32;1
                                      UNTIL .FCB EQL 0 DO BEGIN
  1253
1254
1255
1255
1257
1258
1263
1263
1264
1268
1268
1271
1272
1273
                                             NEXT_FCB = .FCB[FCB$L_EXFCB];
                                             P = .fCB[fCB$L_fCBfL];
UNTIL .P[VCB$B_TYPE] EQL DYN$C_VCB
DO P = .P[fCB$[_fCBfL];
P[VCB$W_TRANS] = .P[VCB$W_TRANS] - 1;
                                             FCB[FCB$L_EXFCB] = 0;
IF .FCB [FCB$B_TYPE] NEQ DYN$C_FCB
                                             BUG_CHECK (NOTFCBFCB, 'not fcb');
REMQUE (.FCB, DUMMY);
                                             DEALLOCATE (.FCB):
                                             FCB = .NEXT_FCB;
                                             END:
                                       RETURN 1:
                                      END:
                                                                                                       ! end of routine DEL_EXTFCB
                                                                                                                        .EXTRN BUG$_NOTFCBFCB
                                                                                          003C 00000
                                                                                                                         .ENTRY
                                                                                                                                     DEL_EXTFCB, Save R2,R3,R4,R5
START_FCB, R0
                                                                                                                                                                                                                2179
                                                               50
                                                                                                  00002
                                                                                                                        MOVL
                                                                                                  00006
                                                                                       3 C
                                                                                                                        BEQL
                                                                                      A0
A0
53
                                                               53
                                                                              00
                                                                                                                                      12(RO), FCB
12(RO)
                                                                                                                                                                                                                2234
2235
2236
                                                                                            DO
                                                                                                 00008
                                                                                                                        MOVL
                                                                                             D4
                                                                                                 0000C
                                                                                                                        CLRL
                                                                                                  0000F 15:
                                                                                                                        TSTL
                                                                                                                                      FCB
                                                                                                 00011
                                                                                                                        BEQL
                                                                                            DO 00013
DO 00017
91 0001A
13 0001E
                                                               54
52
11
                                                                                                                                     12(FCB) NEXT_FCB
(FCB) P
10(P) #17
                                                                                                                                                                                                                2238
2240
2241
                                                                                      MOVL
                                                                                                                        MOVL
                                                                              OA
                                                                                                 0001A 28:
                                                                                                                        CMPB
                                                                                                                        BEQL
                                                                                                                                      38
                                                                                                00020
00023
00025
00028
                                                               52
                                                                                                                                      (P), P
                                                                                            DO
                                                                                                                                                                                                                 2242
                                                                                                                        MOVL
                                                                                                                                     2$
12(P)
12(FCB)
                                                                                                                        BRB
                                                                                            B7
D4
91
13
                                                                                                                                                                                                                2243
2245
2246
                                                                                                                        DECW
                                                                                                                        CLRL
                                                                                         91 0002B
13 0002F
FEFF 00031
                                                               07
                                                                                                                        CMPB
                                                                                                                                      10(FCB), #7
                                                                                                                        BEQL
                                                                                                                                                                                                                2248
                                                                                                                        BUGW
                                                                                        0000 00033
                                                                                                                                     <BUG$_NOTFCBFCB!4>
(FCB), DUMMY
                                                                                                                         . WORD
                                                                                            OF 00035
DD 00038
FB 0003A
DO 0003F
11 00042
DO 00044 5$:
                                                               55
                                                                                                                                                                                                                2249
                                                                                                                        REMQUE
                                                                                                                        PUSHL
                                                                                                                                     FCB
                                                               CF
53
                                                    0000G
                                                                                                                                     #1, DEALLOCATE
                                                                                                                        CALLS
                                                                                                                        MOVL
                                                                                                                                     NEXT_FCB, FCB
                                                                                                                        BRB
                                                                                                                                     #1, RO
                                                                50
                                                                                                                        MOVL
                                                                                                 00047
                                                                                                                        RET
```

Routine Base: \$CODE\$ + 0528

: Routine Size: 72 bytes.

```
CO
VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
```

```
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
ROUTINE ZERO_CHANNEL : L_NORM =
1++
   FUNCTIONAL DESCRIPTION:
           This routine zeroes out the window pointer being returned to the user for his channel control block. It also credits one to the user's open file quota, except for the case of a shared window.
           This routine must be executed in kernel mode.
  CALLING SEQUENCE: ZERO_CHANNEL ()
   INPUT PARAMETERS:
           NONE
   IMPLICIT INPUTS:
           IO_PACKET: I/O packet of request
   OUTPUT PARAMETERS:
           NONE
   IMPLICIT OUTPUTS:
           NONE
   ROUTINE VALUE:
           NONE
           channel window pointer cleared, file quota bumped unless shared window
BEGIN
LOCAL
                                  : REF BBLOCKVECTOR [,ABD$C_LENGTH],
! buffer descriptors
           ABD
                                  : REF BBLOCK.
: REF BBLOCK;
           JIB
PCB
                                                           Job information block address
                                                           address of user process control block
EXTERNAL
           SCHSGL_PCBVEC
                                 : REF VECTOR ADDRESSING MODE (ABSOLUTE);
! system PCB vector
BIND_COMMON:
                                                        ! pointer to buffer descriptors
ABD = .BBLOCK [.IO PACKET[IRP$L SVAPTE], AIB$L_DESCRIPT];
ABD[ABD$C_WINDOW, ABD$W_COUNT] = 4;
.ABD[ABD$C_WINDOW, ABD$W_TEXT] + ABD[ABD$C_WINDOW, ABD$W_TEXT] + 1 = 0;
IF
      BEGIN
      ! The FILCNT quota is credited if a WCB has not yet been allocated or
```

CLENUP VO4-000

```
E 14
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1
                                                                                                                                       ! if the SHRWCB bit is not set in the WCB.
                                                                              2314
2315
15167
23118
901223
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2312
                                                                                                                                          IF .CURRENT_WINDOW EQL O
                                                                                                                                        THEN 1
                                                                                                                                        ELSE NOT . CURRENT_WINDOW[WCB$V_SHRWCB]
                                                                                                                                         END
                                                                                                                    THEN
                                                                                                                                        PCB = .SCH$GL PCBVEC[.(10_PACKET[IRP$L_PID])<0,16>];
JIB = .PCB[PCB$L_JIB];
JIB[JIB$W_FIL(NT] = .JIB[JIB$W_FIL(NT] + 1;
                                                                                                                                         END:
                                                                                                                     RETURN 1:
                                                                                                                     END:
                                                                                                                                                                                                                                                                                                                    ! end of routine ZERO_CHANNEL
                                                                                                                                                                                                                                                                                                                                                                           .EXTRN
                                                                                                                                                                                                                                                                                                                                                                                                          SCHSGL_PCBVEC
                                                                                                                                                                                                                                                                             0000 00000 ZERO_CHANNEL:
                                                                                                                                                                                                                                                                                                                                                                                                               Save nothing
-112(BASE), RO
a44(RO), ABD
#4, 2(ABD)
(ABD), RO
1(ABD)[RO]
                                                                                                                                                                                                                                                                                                                                                                          .WORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2257
                                                                                                                                                                                                                                                                                                   00002
00006
0000A
0000E
00011
00015
00017
0001B
                                                                                                                                                                                                                                         90 AA
2C B0
04
61
01 A140
9E
0C AA
05
03
                                                                                                                                                                                              50
51
A1
50
                                                                                                                                                                                                                                                                                     D0
D0
B0
9F
                                                                                                                                                                                                                                                                                                                                                                          MOVL
                                                                                                                                                                      02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2307
2308
                                                                                                                                                                                                                                                                                                                                                                          MOVW
                                                                                                                                                                                                                                                                                                                                                                          MOVZWL
                                                                                                                                                                                                                                                                                                                                                                          PUSHAB
                                                                                                                                                                                                                                                                                                                                                                          CLRL
                                                                                                                                                                                                                                                                                                                                                                                                                  a(SP)+
                                                                                                                                                                                               50
                                                                                                                                                                                                                                                                                                                                                                          MOVL
                                                                                                                                                                                                                                                                                                                                                                                                                   12(BASE), RO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2316
                                                                                                                                                                                                                                                                                                                                                                         BEQL
                                                                                                                                                                                                                                                                                                                                                                                                               #3, 11(R0), 2$

a#SCH$GL PCBVEC, R1

-112(BASE), R0
                                                                                                                                                                                                                                                                                     EO
DO
                                                                                                                         10
                                                                                                                                                                                              A0
51
50
50
50
50
                                                                                                                                                                                                                                                                                                                                                                         BBS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2318
2322
                                                                                                                                                                                                           000000006
                                                                                                                                                                                                                                                                                                     00022 15:
                                                                                                                                                                                                                                                                                                                                                                          MOVL
                                                                                                                                                                                                                                                                                     DO
CO
3C
                                                                                                                                                                                                                                                                                                    00029
                                                                                                                                                                                                                                                                  AA
0C
60
40
CO
A0
01
                                                                                                                                                                                                                                                                                                                                                                         MOVL
                                                                                                                                                                                                                                                                                                                                                                                                               #12, R0
(R0), R0
(R1)[R0], PCB
                                                                                                                                                                                                                                                                                                   0002b
00030
                                                                                                                                                                                                                                                                                                                                                                          ADDL2
                                                                                                                                                                                                                                                                                                                                                                          MOVZWL
                                                                                                                                                                                                                                                                                     DO
DO
B6
                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                     00033
                                                                                                                                                                                                                                                                                                                                                                         MOVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2323
2324
2327
2329
                                                                                                                                                                                                                                0080
                                                                                                                                                                                                                                                                                                    00037
                                                                                                                                                                                                                                                                                                                                                                                                                  128(PCB), JIB
                                                                                                                                                                                                                                                                                                                                                                         MOVL
                                                                                                                                                                                                                                                                                                   0003C
0003F
00042
                                                                                                                                                                                                                                                                                                                                                                          INCW
                                                                                                                                                                                                                                                                                                                                                                                                                  48(JIB)
                                                                                                                                                                                               50
                                                                                                                                                                                                                                                                                                                                                                                                                 #1. RO
                                                                                                                                                                                                                                                                                                                                                                          MOVL
                                                                                                                                                                                                                                                                                                                                                                         RET
```

Routine Base: \$CODE\$ + 0570

; Routine Size: 67 bytes.

```
CLENUP
V04-000
                                                                                                  16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
                                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page 38 DISK$VMSMASTER:[F11X.SRC]CLENUP.B32;1 (10)
                                    GLOBAL ROUTINE NUKE_HEAD_FCB (FCB) : L_NORM NOVALUE =
  13555556789012345678901234555555678901234567890123456777777778901234567890123
11355555678901234567890123455557890123
                                       Functional Description:
                                       Given an fcb already stripped of possible extension fcbs, and which has a refent of 0 (assumed), clean up the things that need cleaning up, remove it from the fcb list (we assume that is where it is), and deallocate it.
                        BEGIN
                                    MAP
                                                 FCB
                                                             : REF BBLOCK;
                                    BASE_REGISTER;
                                    EXTERNAL ROUTINE
                                                 ACL DELETEACL.
                                                                         : L_NORM, : L_NORM;
                                                 DEALCOCATE
                                    LOCAL
                                                DUMMY:
                                    IF .FCB [FCB$B_TYPE] NEQ DYNSC_FCB
                                          BUG_CHECK (NOTFCBFCB, 'not fcb');
                                    REMQUE (.FCB, DUMMY);
                                    IF .BBLOCK [FCB [FCB$R_ORB], ORB$V_ACL_QUEUE]
                                    THEN
                                          ACL_DELETEACL (FCB [FCB$L_ACLFL], 0);
                                    IF NOT CONV_ACCLOCK (O, .FCB)
                                          BUG_CHECK (XQPERR, 'Unexpected lock manager status');
                                    DEALLOCATE (.FCB);
                                    END:
                                                             ! of routine NUKE_HEAD_FCB
                                                                                                                 .EXTRN ACL_DELETEACL
```

50 07	04 0A	0000 00000 AC DO 00002 AO 91 00006 04 13 0000A	ENTRY MOVL CMPB BEQL	NUKE_HEAD_FCB, Save nothing FCB, RO 10(RO), #7	2330
		FEFF 0000C	BUGW		2360
50	04	BC OF 00010 15:	.WORD REMQUE	<bug\$_notfcbfcb!4> aFCB, DUMMY</bug\$_notfcbfcb!4>	2362

CP

CLENUP VO4-000							10	14 -Sep-	1984 00:02 1984 12:30	:25	VAX-11 BLiss-32 V4.0-742 DISKSVMSMASTER: [F11X.SRC	Page 39 CLENUP.B32;1 (10)
	10	63	50 A0	04	AC 01	DO E1	00014 00018		MOVL	FCB.	R0 99(R0), 2\$	: 2364 : 2366
	7E	0000G	AC CF	00000080	8F 02 AC	C1 FB	0001F 00028 0002D	28:	MOVL BBC CLRL ADDL3 CALLS PUSHL CLRL CALLS BLBS BUGW .WORD PUSHL	#128 #2, FCB -(SP)	FCB, -(SP) ACL_DELETEACL	2368
		0000G	CF 04		02	FB EFF	00030 00032 00037 0003A		CLRL CALLS BLBS	-(SP) #2. RO.	CONV_ACCLOCK	2370
		00006	CF	04		00* DD FB 04	0003C 0003E	3\$:	WORD PUSHL CALLS RET	FCB #1, I	S_XQPERR!4> DEALLOCATE	2372

; Routine Size: 71 bytes, Routine Base: \$CODE\$ + 05B3

```
H 14
16-Sep-1984 00:02:25
14-Sep-1984 12:30:12
CLENUP
VO4-000
                                                                                                                                              VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]CLENUP.B32:1
                                       LOCK_CODE;
GLOBAL ROUTINE SET_DIRINDX (FCB) : L_JSB_1ARG =
                                          Functional Description:
                                          This routine tests for the presence of a directory index, and set the FCB$V_DIR flag accordingly at SCHED ipl, so at to interlock with the directory index handling routine which may be trying to toss it out, and the search_fcb routine, which also runs at sched ipl.
                                          ROUTINE VALUE:
true - if this now a directory fcb eligible for replacement
                                                    false - otherwise
                                      BEGIN
                                      MAP
                                                   FCB
                                                                 : REF BBLOCK;
                                      LOCAL
                                                   STATUS : INITIAL (0);
                                      SET_IPL (IPL$_SCHED);
                                      IF .FCB [FCB$L_DIRINDX] NEQ O
                                            BEGIN

FCB [FCB$V_DIR] = 1;

STATUS = .STATUS + 1;
                                      SET_IPL (0):
                                       .STATUS
                                                                ! of routine SET_DIRINDX
                                                                                                                        .PSECT $LOCKEDC1$, NOWRT, 2
                                                                                      ST DA DODOO SET DIRINDY ...
```

	12	00B0			CLRL MTPR TSTL BEQL BISB2 INCL 1\$: MTPR MOVL	STATUS #3, #18 176(FCB)	2394 2402 2404
22	AO		06 01	13 00009 88 0000E	BEQL BISB2	1\$ #1, 34(FCB)	
	12 50		51 00 51	DA 00002 D5 00005 13 00005 88 00006 D6 00001 DA 00014	15: MTPR MOVL	1\$ #1, 34(FCB) STATUS #0, #18 STATUS, RO	2407 2408 2411 2415

CF

CLENUP V04-000	1	1 14 6-Sep-1984 00:02:25 4-Sep-1984 12:30:12	VAX-11 Bliss-32 V4.0-742 Page 41 DISK\$VMSMASTER:[F11X.SRC]CLENUP.B32;1 (11)
	05 00017	RSB	:
; Routine Size: 24 bytes, Rou	tine Base: \$LOCKEDC1\$ + 0000		
: 1436	at just prior to the SET_DIRINDX to the locked psect because the ed. Any routines added at this ss they need to be locked, put t	routine the psects we SET_DIRINDX routine m point will be locked a hem prior to SET_DIRIN	re lust lso, lDX.
	PSECT SUMMARY		
Name	Bytes At	tributes	
\$CODE\$ \$LOCKEDC1\$	1530 NOVEC, NOWRT, RD , EX 24 NOVEC, NOWRT, RD , EX	E,NOSHR, LCL, REL, E,NOSHR, LCL, REL,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)
	ibrary Statistics		
File	Total Loaded Pe	rcent Mapped	Processing Time
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619 95	0 1000	00:02.0
:	COMMAND QUALIFIERS		
: BLISS/CHECK=(FIELD,INITIA	L,OPTIMIZE)/LIS=LISG:CLENUP/OBJ=	OBJ\$:CLENUP MSRC\$:CLEN	UP/UPDATE=(ENH\$:(LENUP)
Size: 1554 code + 0 dat Run Time: 01:19.3 Elapsed Time: 02:31.2 Lines/CPU Min: 1834 Lexemes/CPU-Min: 54610 Memory Used: 371 pages Compilation Complete	a bytes		

CF

0168 AH-BT13A-SE

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